

The ST700P is closely related to the ST900 family of Siemens high performance traffic controllers. It is designed for use as a pedestrian controller and provides Pelican, Puffin and Toucan control strategies. Based on the range of successful Siemens intersection controllers it offers many features particularly focused to meet the needs of traffic engineers seeking efficient pedestrian control.

Variety of construction options

Recognising the need for installation flexibility, the ST700P provides three housing solutions:

- **Compact ST700P outercase:**
A highly space-efficient enclosure requiring only 0.1m of footpath space, whilst accommodating a range of additional equipment such as integral OTUs, OMUs and loop detector cards.
- **Standard T400S and ST800 outercases:**
Utilising the popular T400S and ST800 single sided cabinets, these options accommodate the ST700P controller and provide extensive 11" and 19" rack space for a wide range of ancillary equipment.
- **Universal upgrade module:**
Containing all essential controller electronics within a self-contained unit, this option allows the controller to be installed in a wide range of cabinets. Specially designed mounting kits considerably ease installation, providing a particularly cost-effective route to pedestrian crossing modernisation.

The ST700P design is optimised for pedestrian control, providing built-in low voltage wait drives and sufficient I/O for most Pelican, Puffin and Toucan applications. Where required, integral OTU and I/O cards may be used to expand the controller. The controller is also fully compatible with the Siemens semi-integral OMU.

User configurable

ST700P configuration data sets are prepared using the highly acclaimed and easy to use IC4 configurator, with data being directly downloaded into the controller via the handset port.



- Approved for Pelican, Puffin and Toucan control
- Range of cabinet options
- Wide range of cuckoo options available providing a highly cost-effective route to Puffin and Toucan upgrades
- Easy configuration using Windows-based data generation package (IC4) with optional emulator
- Signal-dimming with built-in low voltage drives for wait and nearside indicators
- Extensive self-test facility for rapid system validation
- Dual processor safety system - all colour outputs checked for incorrect operation

ST700P pedestrian controller

Traffic Controls

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The configuration process is further simplified by the provision of prepared 'read-only' default files which may be modified to adjust all site-dependent variables prior to downloading, minimising the need for on-street changes. However, where required, specific settings such as timings and other parameters including detector allocations and SDE parameters may be adjusted on-site using a standard controller handset.

The optional emulator is a feature-rich tool which links seamlessly with the IC4 configurator to provide an advanced environment for de-bugging and proving ST700P configurations. Using the same software source files as the controller firmware, it ensures a highly accurate representation of the controller operation on a PC.

Enhanced safety features

Two independent microprocessors and comprehensive hardware 'self-check' features provide exceptional levels of controller safety.

This is further improved by full equivalence-monitoring on all aspect drives (red, amber, green), ensuring that the incorrect display of any signal colour is prevented.

The audible/tactile drive is also monitored by both processors with periodic testing of the circuits.

Technical specification

Pedestrian control strategies

- Puffin: Near-sided and Far-sided
- Toucan: Near-sided and Far-sided
- Pelican: Far-sided
- Pedestrian: Far-sided

Each available in single and dual versions

Modes of operation

Manual, Vehicle Actuated, Fixed Vehicle Period, Urban Traffic Control, Cableless Linking, Local Linking

Housings

- Compact ST700P enclosure:
1000mm (H) x 380mm (W) x 260mm (D)
- ST800 cabinet:
1160mm (H) x 725mm (W) x 420mm (D)

Available cuckoo kits

- GEC25
- GEC125/104
- T400L/T500L
- T500P
- T400S/T500S
- Microsense midi-cased Pelican

Electrical

- Power supply:
115V -20% +15%
230V -20% +15%
- Supply frequency: 50/60Hz
- Lamp-switching technology: Solid state
- Maximum load per output: 4A
- Number of hardware phases: 4 max
- Maximum controller lamp load: 1.9KW
- Low voltage wait drive (48V): 200 Watts (per pedestrian phase)
- Signal dimming: 120V, 140V, 160V

Environmental

- Supply interruption: Continuous operation up to 50ms break
- Supply failure: Automatic restart without intervention
- Operating temperature: -25°C to +65°C

Other facilities

- Direct load of configuration into controller without need for configuration PROM
- Built in SDE/SA

For further information, please contact:
Siemens Traffic Controls, Sopers Lane, Poole,
Dorset BH17 7ER UK

Telephone: +44 (0) 1202 782000
E-mail: sales.stc@siemens.com

www.siemenstraffic.com

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